



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 8, 2015

Mr. Kelvin Henderson  
Site Vice President  
Duke Energy Carolinas, LLC  
Catawba Nuclear Station  
4800 Concord Road  
York, SC 29745

**SUBJECT: NUCLEAR REGULATORY COMMISSION PLAN FOR THE AUDIT OF DUKE ENERGY CAROLINAS, LLC'S FLOOD HAZARD REEVALUATION REPORT SUBMITTAL RELATING TO THE NEAR-TERM TASK FORCE RECOMMENDATION 2.1-FLOODING FOR CATAWBA NUCLEAR STATION, UNITS 1 AND 2 (TAC NOS. MF3625 AND MF3626)**

Dear Mr. Henderson:

This letter documents the U.S. Nuclear Regulatory Commission (NRC) staff's plan to perform a regulatory audit of Duke Energy Carolinas, LLC's (the licensee) supporting calculations of the Flood Hazard Reevaluation Report (FHRR) submittal related to the Near-Term Task Force Recommendation 2.1, Flooding for Catawba Nuclear Station, Units 1 and 2 (Catawba). This technical audit will be performed consistent with NRC Office of Nuclear Reactor Regulation, Office Instruction LIC-111, "Regulatory Audits," dated December 29, 2008 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML082900195). The audit will be conducted over multiple sessions, as needed, and the NRC staff will develop an audit summary report to document its observations and conclusions within 90 days of the final audit session.

The audit will provide the NRC staff with a better understanding of the Catawba FHRR which was submitted March 12, 2014 (ADAMS Accession No. ML14077A054). Specifically, the audit will provide the NRC staff with a better understanding of the analyses of the flooding hazards presented in the Catawba FHRR. The audit is intended to support completion of the staff's review of the FHRR and the subsequent issuance of a Staff Assessment.

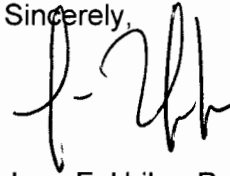
The enclosed audit plan outlines the process that will allow the NRC staff to identify additional information potentially necessary for licensees to supplement their FHRRs, and resolve potential technical concerns. The details of this audit have been discussed with Mr. Phil Barret and Mr. Paul Simbrat of your staff.

K. Henderson

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If you have any questions, please contact me at (301) 415-3809 or by e-mail at [juan.uribe@nrc.gov](mailto:juan.uribe@nrc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Uribe', written over the word 'Sincerely,'.

Juan F. Uribe, Project Manager  
Hazards Management Branch  
Japan Lessons-Learned Division  
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure:  
Audit Plan

cc w/encl: Distribution via Listserv

NRC PLAN FOR THE AUDIT OF DUKE ENERGY CAROLINAS, LLC'S FLOOD HAZARD REEVALUATION REPORT SUBMITTAL RELATING TO THE NEAR-TERM TASK FORCE RECOMMENDATION 2.1-FLOODING FOR CATAWBA NUCLEAR STATION, UNITS 1 AND 2

BACKGROUND AND AUDIT BASIS

By letter dated March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) issued a request for information to all power reactor licensees and holders of construction permits in active or deferred status, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.54(f) "Conditions of license" (hereafter referred to as the "50.54(f) letter"). The request was issued in connection with implementing lessons-learned from the 2011 accident at the Fukushima Dai-ichi nuclear power plant, as documented in The Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident. Recommendation 2.1 of that document recommended that the staff issue orders to all licensees to reevaluate seismic and flooding for their sites against current NRC requirements and guidance. Subsequent Staff Requirements Memoranda associated with Commission Papers SECY 11-0124 and SECY-11-0137, instructed the NRC staff to issue requests for information to licensees pursuant to 10 CFR 50.54(f).

By letter dated March 12, 2014, Duke Energy Carolinas, LLC (Duke, the licensee) submitted its Flood Hazard Reevaluation Report (FHRR) for Catawba Nuclear Station, Units 1 and 2 (Catawba) (Agencywide Documents Access and Management System Accession No. ML14077A054). The NRC staff has begun its review of the aforementioned submittals and plans to conduct a regulatory audit of Duke to aid in its review of the licensee's FHRR.

REGULATORY AUDIT SCOPE AND METHODOLOGY

The areas of focus for the regulatory audit is the information contained in the Catawba FHRR submittal, and all associated and relevant supporting documentation used in the development of the aforementioned document including, but not limited to, methodology, process information, calculations, computer models, etc. The audit will be conducted and completed over several meetings that are to be determined, as necessary.

Enclosure

INFORMATION AND OTHER MATERIAL NECESSARY FOR THE REGULATORY AUDIT

The information required for the audit is the licensee's models and supporting calculations, as well as documentation related to the storm surge and site specific probable maximum precipitation analyses. Other information needs will be discussed as audit meetings are scheduled.

NRC AUDIT TEAM

<b>Title</b>	<b>Team Member</b>	<b>Affiliation</b>
Team Leader, NRR/JLD	Juan Uribe	NRC
Branch Chief, NRO/DSEA	Chris Cook	NRC
Technical Lead	Hosung Ahn	NRC
Technical Manager	Laura Quinn-Willingham	NRC
Technical Support	Ellen Smith	Oak Ridge National Laboratory
Technical Support	Kevin Stewart	Oak Ridge National Laboratory
Technical Support	Abigail Maloof	Oak Ridge National Laboratory

LOGISTICS

The audit meetings will be coordinated with Duke staff.

DELIVERABLES

The NRC team will develop an audit summary report to convey the audit results. The report will be placed in ADAMS within 90 days of the completion of the final audit session, and will be publicly available.

The information discussed in the audit may be included, fully or in part, in the development of the NRC technical staff's assessments as a result of the FHRR review.

K. Henderson

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If you have any questions, please contact me at (301) 415-3809 or by e-mail at [juan.uribe@nrc.gov](mailto:juan.uribe@nrc.gov).

Sincerely,

**/RA/**

Juan F. Uribe, Project Manager  
Hazards Management Branch  
Japan Lessons-Learned Division  
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure:  
Audit Plan

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**ADAMS Accession No.: ML15155A631**

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